

Figure 20. MCB8-10

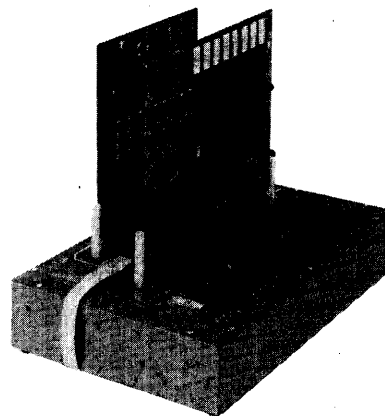


Figure 21. MCB8-10/MP7-03/SIM8-01 System

A. Micro Processor System

When the MCB8-10 is used as a microprocessor, its features, such as the display (for the output ports, I/O decode, flag flip flops, cycle control, step and wait state, and in and out control and input ports), may be utilized at the discretion of the user. As an example, consider the testing of the SIM8-01 boards loaded with a PROM containing the following program: Read Port A and Port B, add the two values and output the results at Port A. The test could be implemented by connecting 8 switches to the A and B input sockets. The actual switch circuit would consist of a single pole double throw switch wired with one pole to ground and the wiper wired to the appropriate socket connector pin in accordance with the MCB8-10 schematic. The SIM8-01 is then inserted into the "SIM8-01" connector and a bench supply connected to the +5V DC and the -9V DC input jacks. The actual test may now be performed. The system is started according to the user's instructions and the program is executed. The result appears at the LED display and may be verified for correctness. The display lights of interest are identified on the system's printed circuit board (Figure 22) as "OUTPUT PORTS" 0, 1, 2, 3 (Bits 0-7).

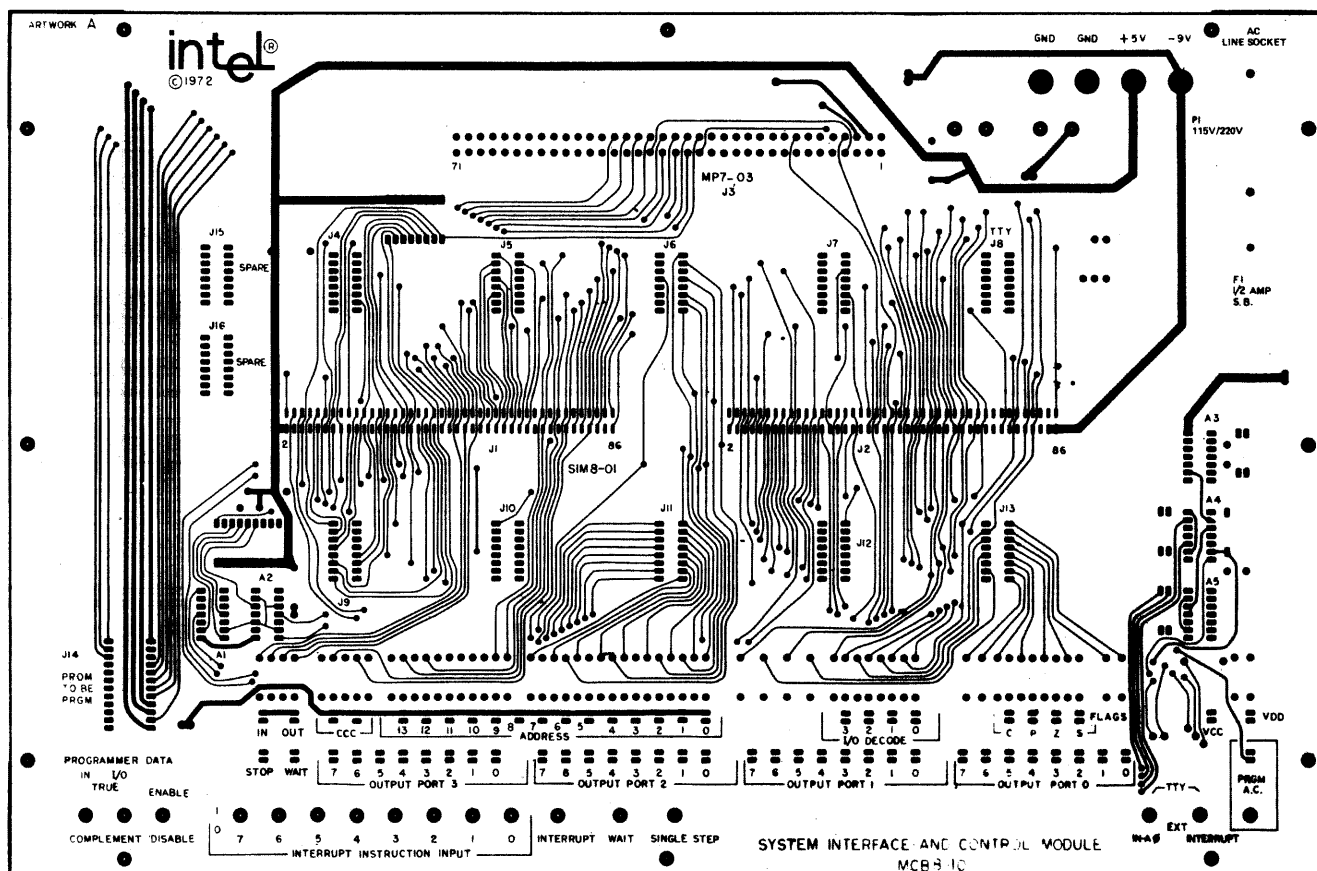


Figure 22. MCB8-10 Printed Circuit Board